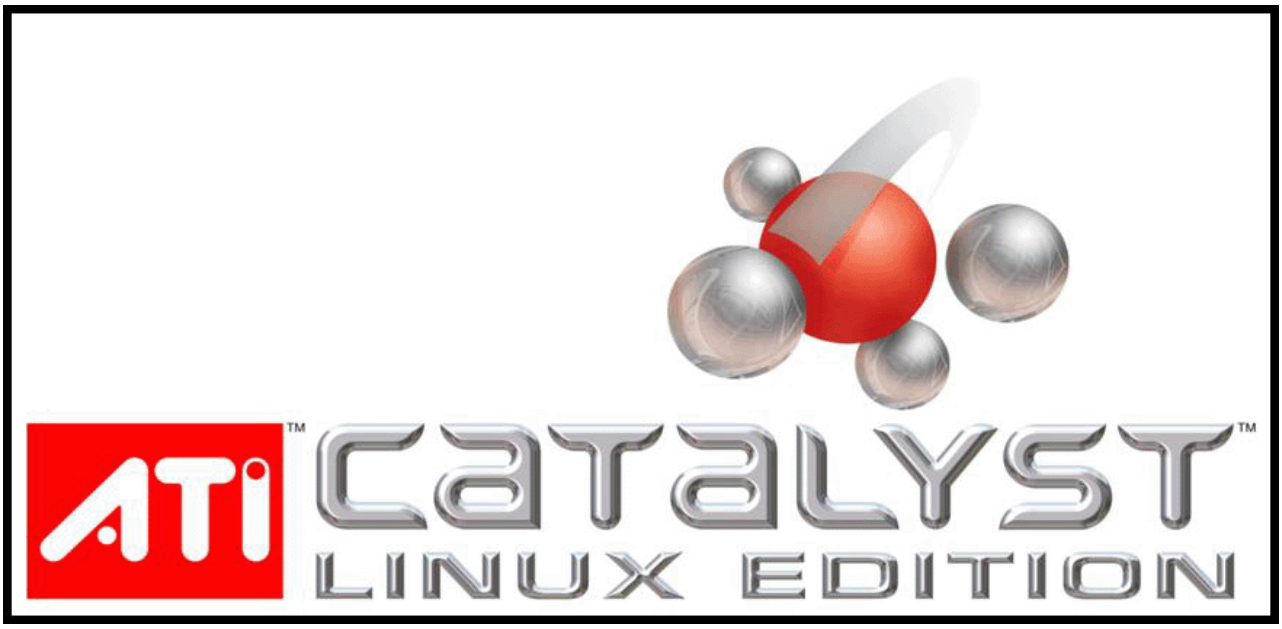
Print



ATI Proprietary Linux Driver Version 8.28.8

Software Release Note

This release note provides information on the latest posting of ATI's Proprietary Linux driver version 8.28.8.

The ATI Linux release notes provides information on the following:

- *ATI Proprietary Linux Driver Features*
- *Web Content*
- *ATI Workstation Product Support*
- *ATI Mobility™ Product Support*
- *ATI Desktop Product Family Support*
- *Operating Systems Distributions Supported*
- *Minimum System Requirements*
- *System Recommendations*
- *New Features*
- *Known Issues*
- *ATI Proprietary Linux Driver Installer*
- *Un-installing the ATI Linux Proprietary Driver*
- *Driver Update Notification*
- *ATI Customer Care*
- *Linux Feedback Program*

ATI Proprietary Linux Driver Features

The ATI Proprietary Linux driver provides TV Output support for ATI graphics cards that support TV out. The ATI Proprietary Linux driver also allows for the following monitor arrangements:

- Single Head Mode (single display)
- Clone Mode (same content on both screens)
- Mirror Mode (same content on both screens, with identical display resolution and refresh rates)
- Big Desktop (one desktop stretched across two screens)
- Dual Head (separate instances of X running on each screen)

Note: Mirror mode is not supported on ATI Radeon® 1x00 products. Mirror mode is also not available on the following ATI FireGL products:
· FireGL V3300
· FireGL V3400
· FireGL V5200
· FireGL V7200
· FireGL V7300
· FireGL V7350

Web Content

The ATI Proprietary Linux driver is available in both RPM format and through an Installer executable. You should verify your distribution uses RPM before downloading RPM packages.

Note: The packages are available for XFree86 version 4.3, as well as X.org 6.8. One of these two versions must be installed before installing the ATI Proprietary Linux driver

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Note: Refer to the minimum system requirements listed below to ensure you have downloaded the correct driver package for your system.

ATI Workstation Product Support

The ATI Proprietary Linux driver is designed to support the following ATI Workstation products:

FireGL™ V7350	FireGL™ V3300	FireGL™ X1-128
FireGL™ V7300	FireGL™ V3200	FireGL™ X1-256p
FireGL™ V7200	FireGL™ V3100	FireGL™ 8800
FireGL™ V7100	FireGL™ X3-256	FireGL™ 8700
FireGL™ V5200	FireGL™ X3	FireMV™ 2200 (Single card configuration)
FireGL™ V5100	FireGL™ X2-256	Mobility™ FireGL™ V5000
FireGL™ V5000	FireGL™ Z1-128	Mobility™ FireGL™ 9100
FireGL™ V3400	FireGL™ T2-128	Mobility™ FireGL™ T2

ATI Mobility™ Product Support

The ATI Proprietary Linux driver is designed to support the following ATI Mobility™ products:

Mobility™ Radeon® X1800	Mobility™ Radeon® 9800
Mobility™ Radeon® X1600	Mobility™ Radeon® 9600
Mobility™ Radeon® X1400	Mobility™ Radeon® 9550
Mobility™ Radeon® X1300	Mobility™ Radeon® 9500
Mobility™ Radeon® X800	Mobility™ Radeon® 9000
Mobility™ Radeon® X700	Mobility™ Radeon® 9200
Mobility™ Radeon® X600	Radeon® Xpress 200M series
Mobility™ Radeon® X300	

ATI Integrated Product Support

The ATI Proprietary Linux driver is designed to support the following ATI Integrated products:

Radeoon® Xpress 1300 IGP	Radeon® 9200 IGP
Radeoon® Xpress 1250 IGP	Mobility™ Radeon® 9100 IGP series
Radeoon® Xpress 1200 IGP	Radeon® 9100 IGP
Radeon® Xpress 200 series	Mobility™ Radeon® 9000 IGP series

Caution: This software driver provides 2D support only for the ATI Radeon® 9100 IGP and ATI Radeon® 9100 PRO IGP.

ATI Desktop Product Family Support

The ATI Proprietary Linux driver is designed to support the following ATI desktop products:

Radeon® X1900 series	Radeon® 9800 series
Radeon® X1800 series	Radeon® 9600 series
Radeon® X1600 series	Radeon® 9200 series
Radeon® X1300 series	Radeon® 9000 series
Radeon® X850 series	Radeon® 9700 series
Radeon® X800 series	Radeon® 9550 series
Radeon® X700 series	Radeon® 9500 series
Radeon® X600 series	Radeon® 9100 series
Radeon® X300/X550 series	Radeon® 8500 series

Note: ATI All-in-Wonder® variants based on the above are also supported. Video capture however is not supported.

Operating Systems Distributions Supported

The latest version of the ATI Proprietary Linux driver is designed to support the following Linux distributions:

- Red Hat Enterprise Linux suite
- Novell/SuSE product suite

Note: The ATI Proprietary Linux driver may install on a number of other Linux distributions. Refer to the Package Generation installation instructions for more information.

Note: ATI has accepted contributed packaging scripts to allows creation of other packages, but does not necessarily test, verify or warrant the reliability. Currently Red Hat Enterprise Linux suite and Novell/SuSE product suite are supported Linux distributions

Minimum System Requirements

Before attempting to install the ATI Proprietary Linux driver, the following software must be installed:

- XOrg 6.7, 6.8, 6.9, 7.0, or 7.1; XFree86 version 4.3
- Linux kernel 2.4 or higher
- glibc version 2.2 or 2.3
- POSIX Shared Memory (/dev/shm) support is required for 3D applications

Note: XFree86 version 4.1, and 4.2 are no longer supported. Further details can be found in topic number 737-22638.

System Recommendations

The ATI Proprietary Linux driver no longer provides precompiled Kernel Modules; all installations require GCC compiler and kernel-headers or kernel-source in order to enable 2D and 3D acceleration.

For best performance and ease of use, ATI recommends the following:

- Kernel module build environment - should include the following:
  - Kernel source code: Either the Kernel Source or Kernel Headers packages
- ISSE Support enabled in your Linux Kernel
  - Applies to Intel Pentium III and later CPUs only
  - Enabled by default on version 2.4 and later kernels
- The rpm utility should be installed and configured correctly on your system, if you

intend to install via RPM packages
- QT version 2.x.x is needed for the ATI Control Panel, but is not mandatory

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Note: The following 32 bit packages must be installed in order for 64 bit drivers to install and work properly:
· XFree86-Mesa-libGL
· libstdc++
· libgcc
· XFree86-libs
· fontconfig
· expat
· freetype
· zlib

New Features

This section provides information on new features introduced in the latest release of the ATI Proprietary Linux driver. This include:

- *Display Switching Support for IBM/Lenovo Thinkpad Products*
- *ATI Pairmode Support*
- *Retaining Display Device State Between Restarts*
- *New Product Support*
- *Unified Linux Proprietary Linux Driver*

Display Switching Support for IBM/Lenovo Thinkpad Products

This release of the ATI Proprietary Linux driver provides Display Switching support for IBM/ Lenovo Thinkpad products containing a supported ATI Radeon® Mobility™ product. This feature allows users to use the hotkey function Fn+F7 to toggle between display devices connected to the laptop.

ATI Pairmode Support

This release of the ATI Proprietary Linux driver introduces a new feature called Pairmode. This feature allows users to enable BigDesktop mode with two different screen resolutions. When using Xrandr, users can now dynamically switch between BigDesktop and Clone mode without having to restart the X Server.

Note: This feature is available when using Horizontal BigDesktop mode.

Retaining Display Device State Between Restarts

This release of the ATI Proprietary Linux driver now maintains the display device status between restarts. Previously, when using multiple display devices, the ATI Proprietary Linux drivers enabled all displays connected to the display adapter even if the display devices were disabled by aticonfig or Display Switching.

New Product Support

This release of the ATI Proprietary Linux driver introduces support the ATI Radeon® Xpress

1200, Radeon® Xpress 1250, and Radeon® Xpress 1300 products.

Unified Linux Proprietary Linux Driver

This release of the ATI Proprietary Linux driver now provides a unified driver installer for the 32bit and 64bit Linux platforms. This intelligent installer will identify which CPU architecture (IA32, and x86_64) is being used and install the appropriate driver.

Resolved Issues

The following section provide a brief description of resolved issues with the latest version of the ATI Proprietary Linux driver. These include:

- Connecting a Dell Widescreen UltraSharp 2405FPW to the DVI port of any supported ATI product installed in a system running the X Server no longer results in the display failing to provide an image. Further information can be found in

Known Issues

The following section provides a brief description of known issues associated with the latest version of ATI Proprietary Linux driver. These issues include:

- Attempting to install the ATI Proprietary Linux driver on distributions that have updated certain 3D components outside of the stock XOrg 6.8.2 may result in the driver not initializing 3D applications properly. Further details can be found in topic number 737-20868
- A system hang may occur when attempting to resume from hibernation mode. Further details can be found in topic number 737-22059
- Loading the XVideo Extension on 64-bit Xorg 6.9+ systems causes the X Server to segfault on launch with ATI Radeon X1K products. Further details and the workaround can be found in topic number 737-22837
- Users with X Server X.org 7.1 can not play any video using XV. The ATI AVIVO Video adaptor is not present. Further details and the workaround can be found in topic number 737-22852

For further information and general help on driver or software installation, game issues, and more, visit the ATI FAQ website.

ATI Proprietary Linux Driver Installer

The ATI Proprietary Linux Installer makes installing the ATI Proprietary Linux driver a much simpler and user friendly experience. The new ATI Proprietary Linux Installer provides two modes of installation. The Install Driver option provides a simple driver installation process, and the Generate Distribution Specific Driver Package provides a simple way to generate a package for your distribution.

Note: ATI recommends that you create a central location for your ATI Proprietary Linux driver downloads.

Note: `fglrxconfig' is no longer provided with the ATI Proprietary Linux Driver Installer. To configure your display devices, use `aticonfig'.

Un-installing the ATI Linux Proprietary Driver

Un-installing the ATI Linux Proprietary Driver is dependent on the mode of initial installation.

Automatic or Custom Driver Installations

If the ATI Proprietary Linux Driver was installed using either the Automatic or Custom options, then do the following:

1. Launch the Terminal Application/Window and navigate to the /usr/share/fglrx folder.
2. With super user permissions, enter the command "sh ./fglrx-uninstall.sh"

You have now successfully un-installed the ATI Linux Proprietary Driver.

Package Generation

If the initial installation of the driver was done via the Operating Systems package management software (rpm, apt, etc.) then please use that package management software to remove the ATI Proprietary Linux Driver.

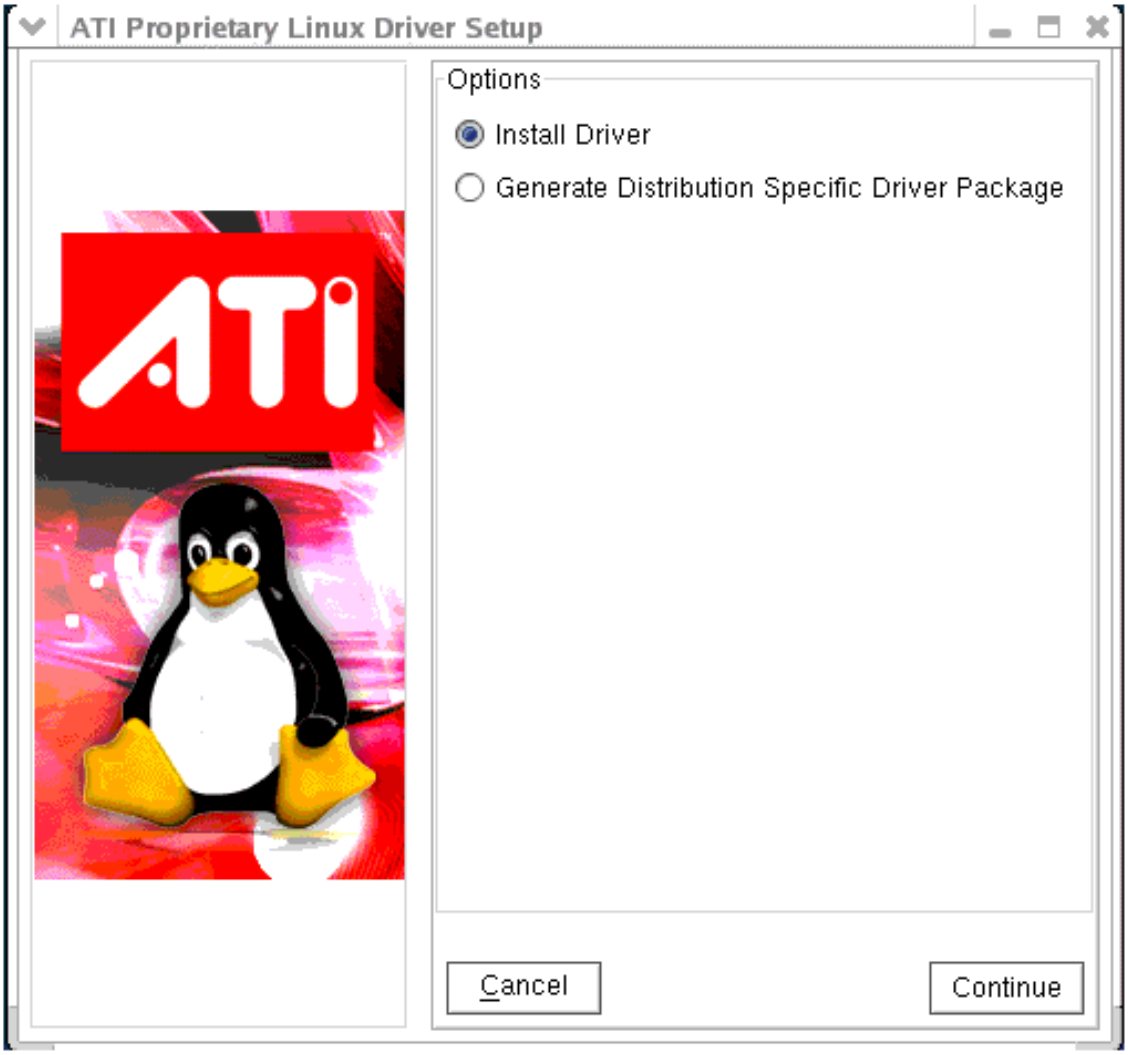
Install Driver Option

The Install Driver option provides two driver installation options. The **Automatic** option installs all driver components, and the **Custom** option allows for the selection of driver components to be installed.

Automatic Driver Installation Option

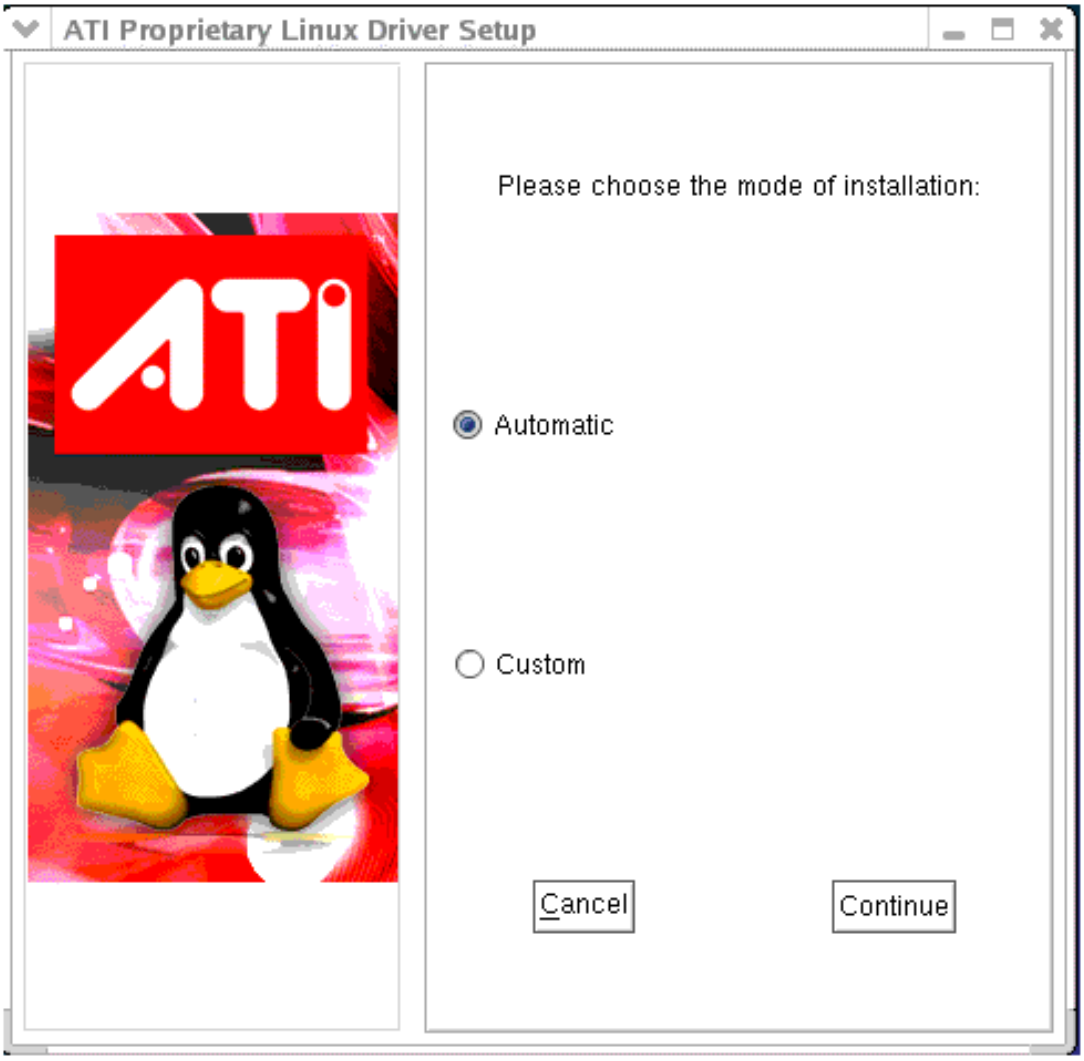
To install the ATI Proprietary Linux driver using the **Automatic** option, follow these steps:

1. Launch the Terminal Application/Window and navigate to the ATI Proprietary Linux driver download.
2. Enter the command *sh ./ati-driver-installer-8.28.8.run* to launch the ATI Proprietary Linux driver installer. The ATI Proprietary Linux Driver Setup dialog box is displayed.

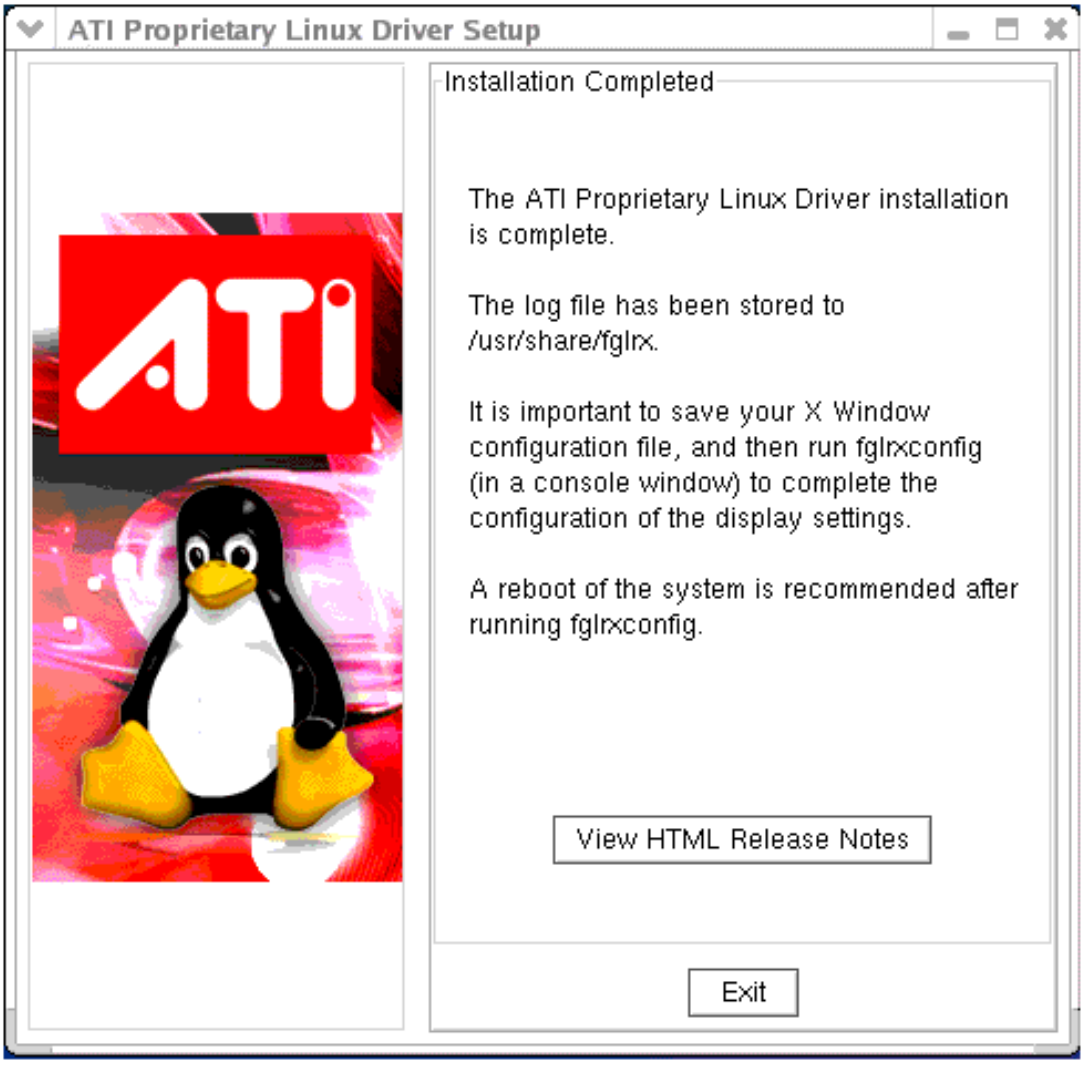


Note: You must be logged in with super user privileges in order to successfully install the ATI Proprietary Linux driver.

3. Select *Install Driver* and click **Continue**. The ATI License Agreement is displayed.
4. Read the License Agreement and Click **I Agree** to continue the installation, or **Cancel** to terminate the installation. The Mode of Installation Dialog Box is displayed.



5. Select *Automatic* and click **Continue**. The ATI Proprietary Linux Driver is installed, and the Installation Complete Dialog box is displayed.


ATI Proprietary Linux Driver Setup
Installation Completed
The ATI Proprietary Linux Driver installation is complete.
The log file has been stored to /usr/share/fglrx.
It is important to save your X Window configuration file, and then run fglrxconfig (in a console window) to complete the configuration of the display settings.
A reboot of the system is recommended after running fglrxconfig.
View HTML Release Notes
Exit

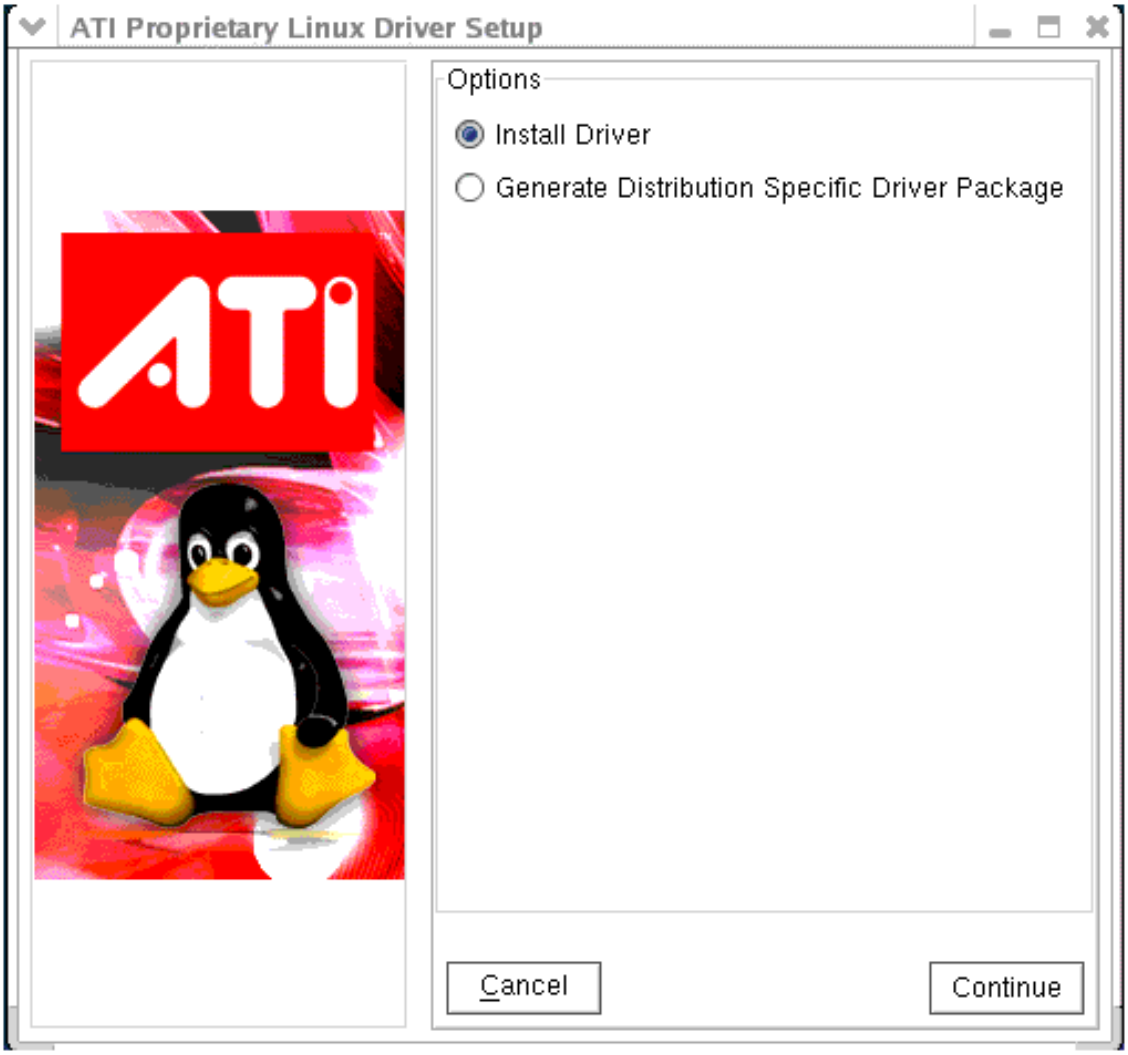
6. Click **View HTML Release Note** for last minute driver information, or **Exit** to close the ATI Proprietary Linux Driver Installer.
7. Launch the Terminal Application/Window and run */usr/X11R6/bin/aticonfig --initial* to configure the driver.
8. Reboot your system.

You have successfully installed the ATI Proprietary Linux Driver.

Custom Driver Installation Option

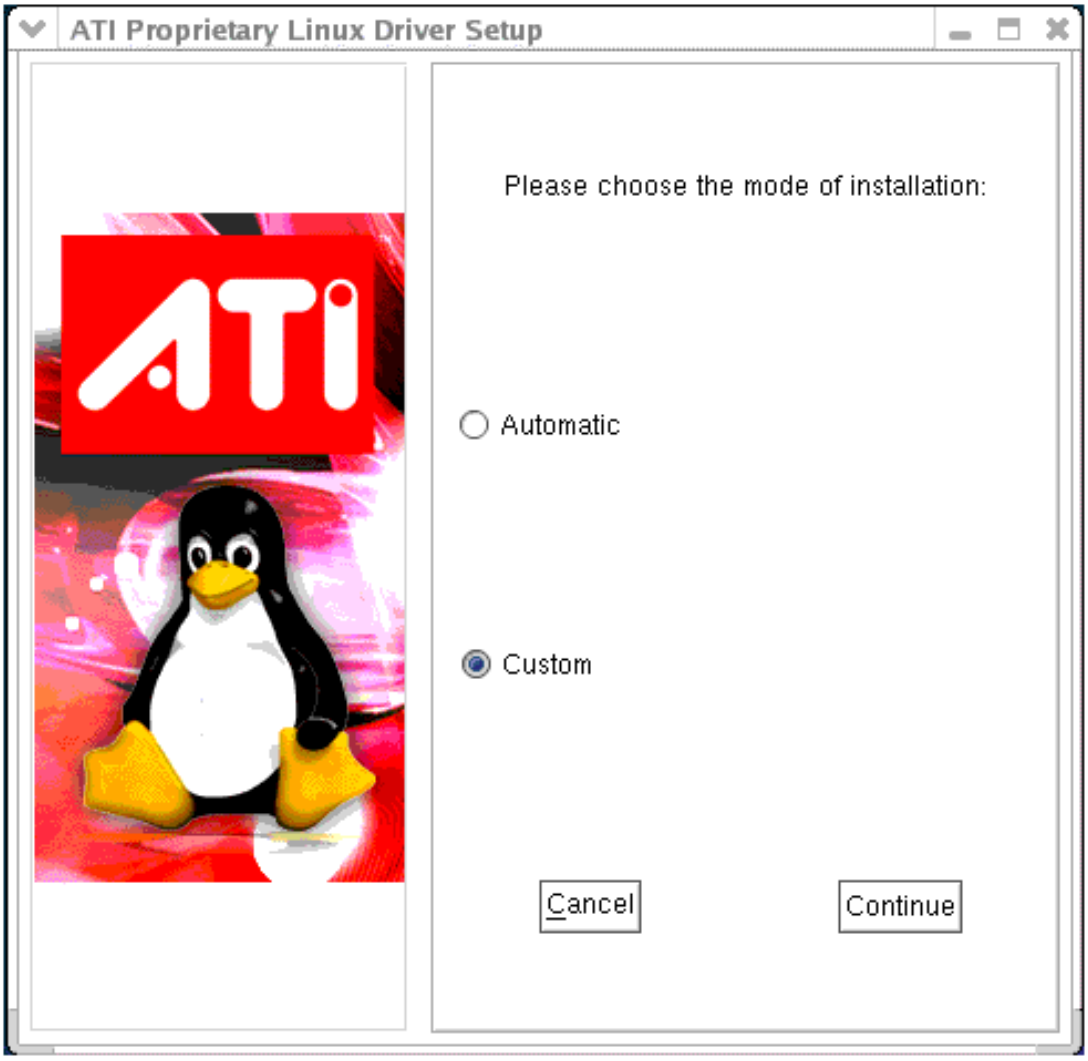
The **Custom** option allows for the selection of driver components to be installed. To install the ATI Proprietary Linux Driver using the **Custom** option, follow these steps:

1. Launch the Terminal Application/Window and navigate to the ATI Proprietary Linux driver you have downloaded
2. Enter the command *sh ./ati-driver-installer-8.28.8.run* to launch the ATI Proprietary Linux driver installer. The ATI Proprietary Linux Driver Setup dialog box is displayed

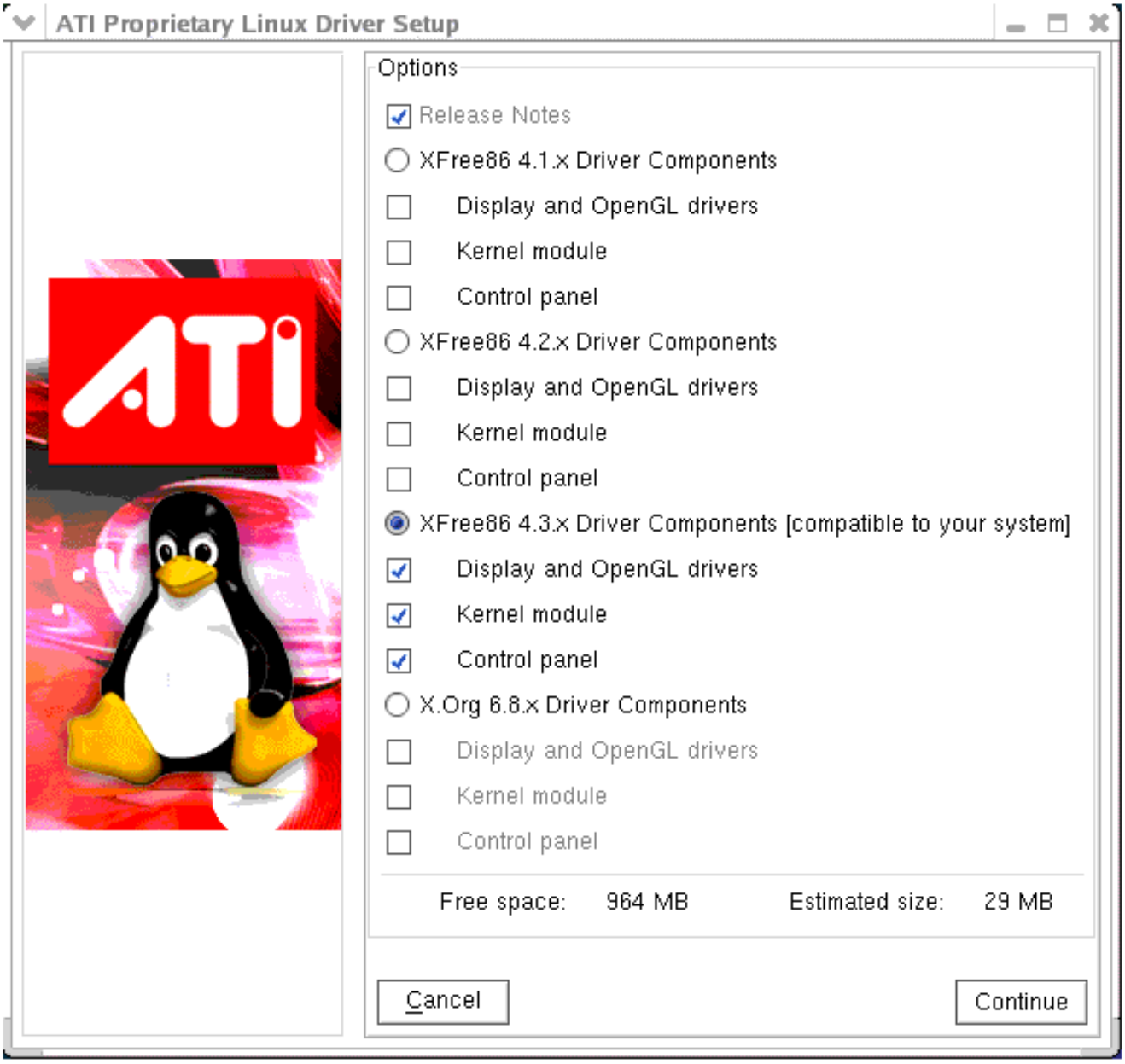


Note: You must be logged in with super user privileges in order to successfully install the ATI Proprietary Linux driver.

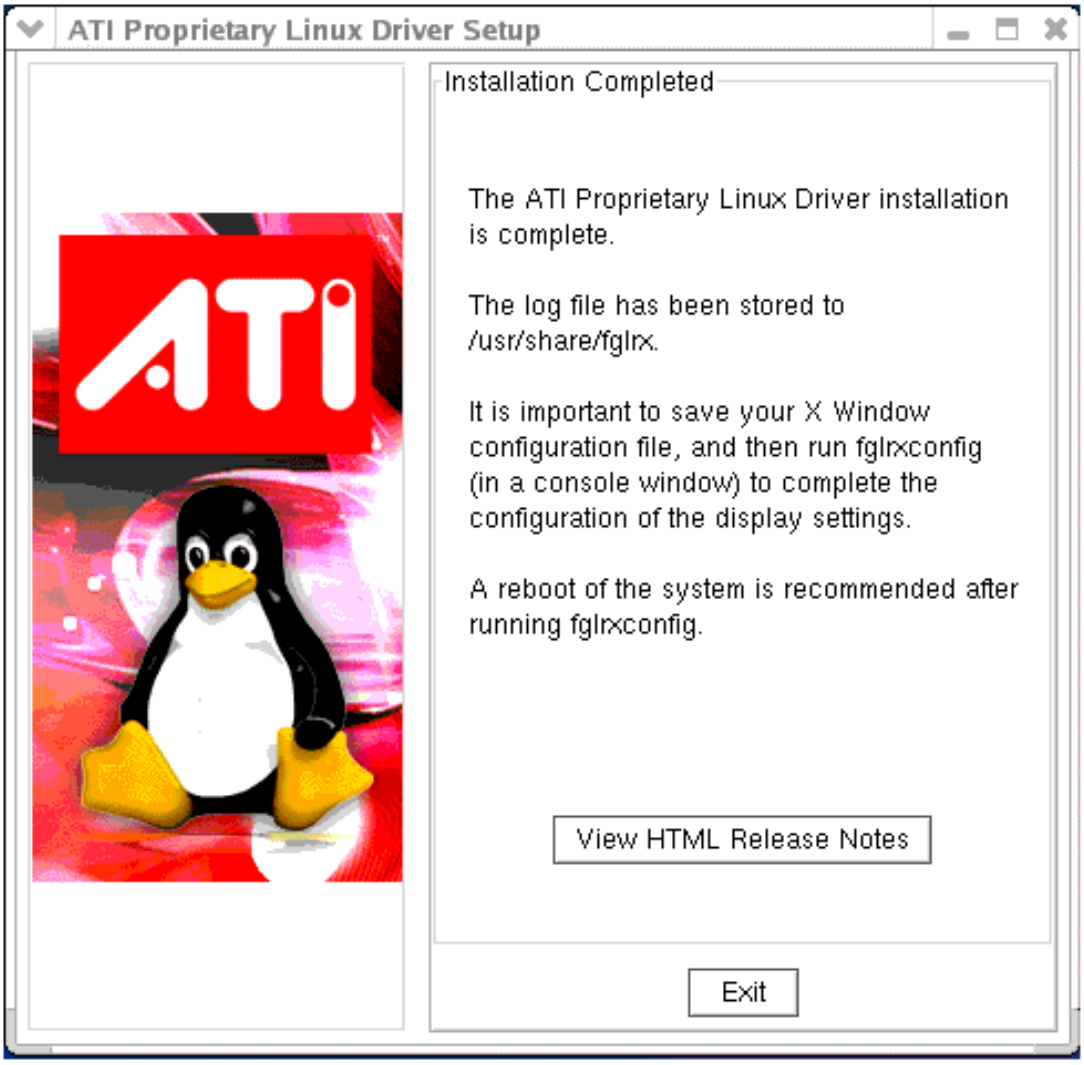
3. Select *Install Driver* and click **Continue**. The ATI License Agreement is displayed.
4. Read the License Agreement and Click **I Agree** to continue the installation, or **Cancel** to terminate the installation. The Mode of Installation Dialog Box is displayed.



5. Select *Custom* and click **Continue**. The ATI Proprietary Linux Driver Setup options is displayed.



6. Select the driver components to be installed and click **Continue**. The ATI Proprietary Linux Driver is installed, and the Installation Complete Dialog box is displayed.


ATI Proprietary Linux Driver Setup
Installation Completed
The ATI Proprietary Linux Driver installation is complete.
The log file has been stored to /usr/share/fglrx.
It is important to save your X Window configuration file, and then run fglrxconfig (in a console window) to complete the configuration of the display settings.
A reboot of the system is recommended after running fglrxconfig.
View HTML Release Notes
Exit

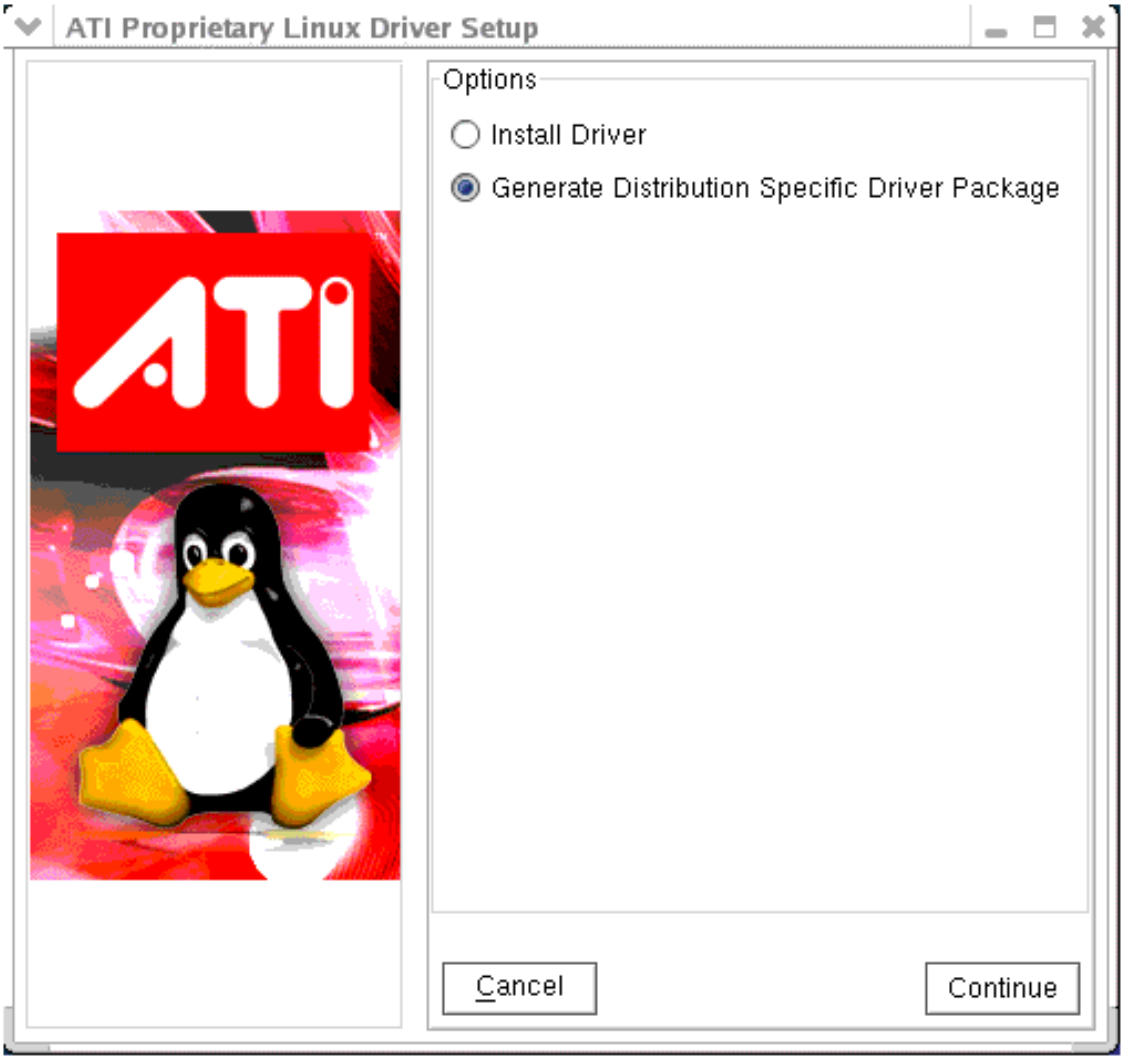
7. Click **View HTML Release Note** for last minute driver information, or **Exit** to close the driver installer.
8. Launch the Terminal Application/Window and run */usr/X11R6/bin/aticonfig --initial* to configure the driver.
9. Reboot your system.

You have successfully installed the ATI Proprietary Linux Driver.

Generate Distribution Specific Driver Package Option

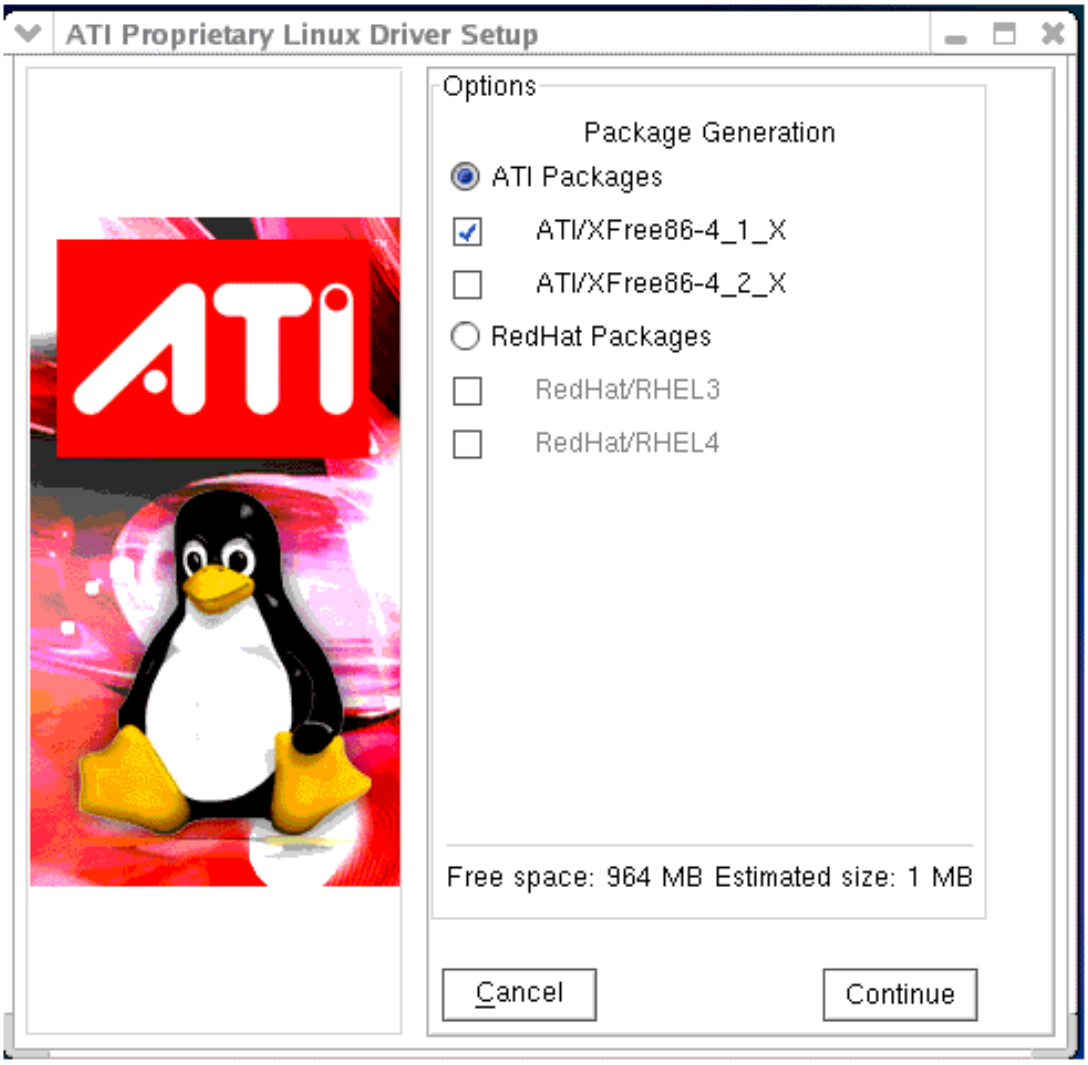
The **Generate Distribution Specific Driver Package** option provides a simple way to generate a package specific for your distribution. This option uses the policies set by the operating system vendor and allows for maximum compatibility with the distribution. To install the ATI Proprietary Linux Driver using the **Generate Distribution Specific Driver Package** option, follow these steps:

1. Launch the Terminal Application/Window and navigate to the ATI Proprietary Linux driver download.
2. Enter the command *sh ./ati-driver-installer-8.28.8.run* to launch the ATI Proprietary Linux driver installer The ATI Proprietary Linux Driver Setup dialog box is displayed

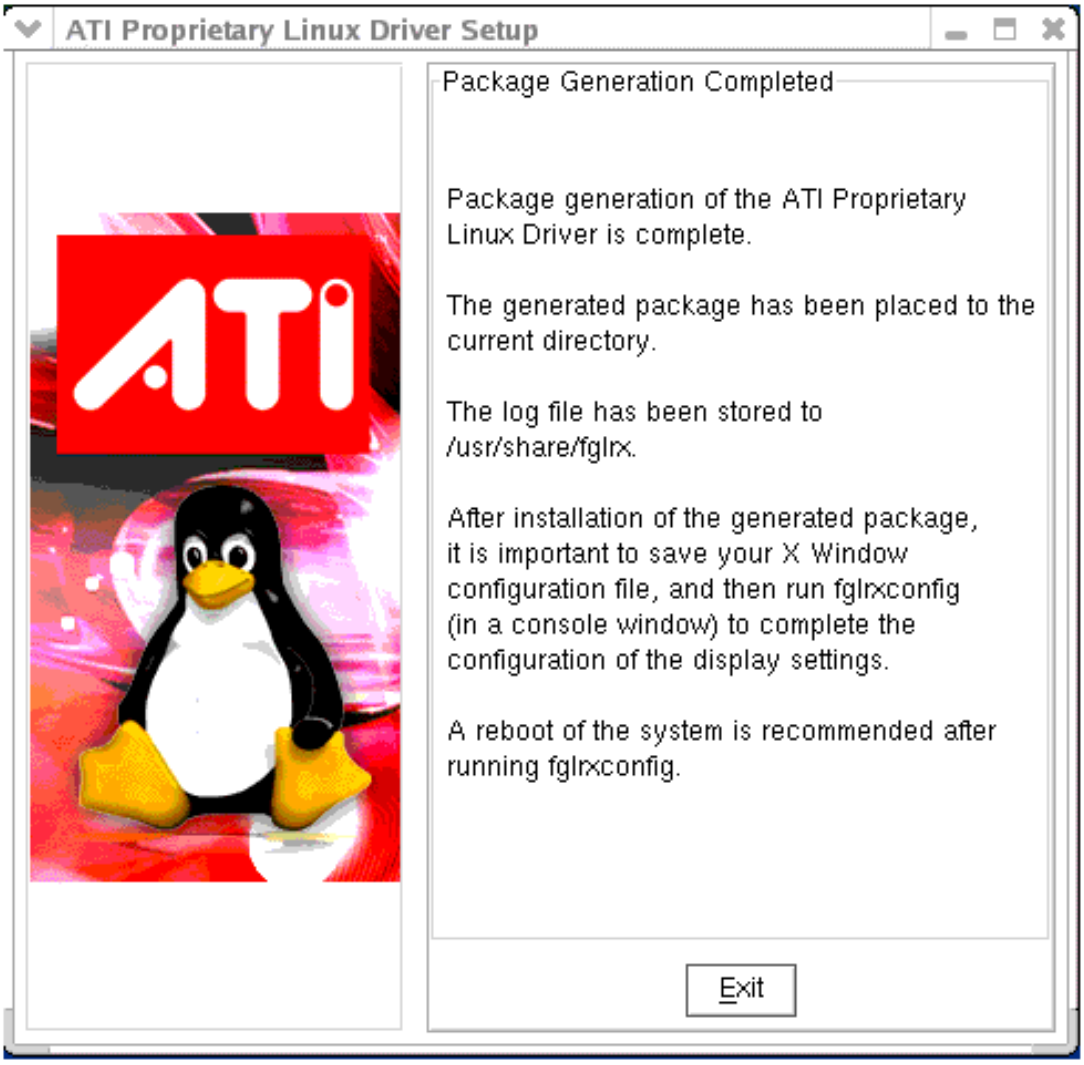


Note: You must be logged in with super user privileges in order to successfully install the ATI Proprietary Linux driver.

3. Select *Generate Distribution Specific Driver Package* and click **Continue**. The ATI License Agreement is displayed.
4. Read the License Agreement and Click **I Agree** to continue the installation, or **Cancel** to terminate the installation. The Package Generation Dialog Box is displayed



5. Select the distribution package to be generated and click **Continue**. The package generation is started and the Package Generation Completed dialog box is displayed.


ATI Proprietary Linux Driver Setup
Package Generation Completed
Package generation of the ATI Proprietary Linux Driver is complete.
The generated package has been placed to the current directory.
The log file has been stored to /usr/share/fglrx.
After installation of the generated package, it is important to save your X Window configuration file, and then run fglrxconfig (in a console window) to complete the configuration of the display settings.
A reboot of the system is recommended after running fglrxconfig.
Exit

6. Click **Exit** to close the ATI Proprietary Linux Driver Installer.
7. You are now ready to install the generated distribution package using the distribution's package management system.
8. After installing the generated distribution package, launch the Terminal Application/ Window and run *aticonfig --initial* to configure the driver.
9. Reboot your system.

You have successfully generated and installed a distribution specific driver package..

Driver Update Notification

To receive driver notifications, add the following RSS feed to your RSS reader: http://www.ati.com/online/rss/atilinuxdriver.rss

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Note: In order to receive notifications you will need to have an RSS reader installed.

ATI Customer Care

The ATI Customer Care website provides a high level of technical support and easy of navigation. The ATI Customer Care website provides accurate and up-to-date product support for optimum usability and performance. Technical issues are categorized and personalized to enhance user experience. The ATI Customer Care Website can be found at:

support.ati.com

To view a known or resolved issue, do the following:

1. Go to: support.ati.com. The ATI Customer Care web page is displayed.
2. In the top left hand pane, click Advanced Search. The Advanced Search pane is displayed.
3. Under Search Type: Select the By: ID option.
4. Enter the Topic number.
5. Click Go.

Linux Feedback Program

The ATI Proprietary Linux driver releases may incorporate suggestions received through the Linux feedback program.
Please refer to http://apps.ati.com/linuxDfeedback/ to provide us with feedback.

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